

## REVISIONS TO CLAIMS

1. (original) A discharge lamp having a reflector and cooling means,  
which cooling means has at least one nozzle (3; 31, 32, 33, 34) through which a  
flow of gas can be directed onto the discharge lamp, wherein the at least one  
nozzle (3; 31, 32, 33, 34) is arranged such that it does not extend, at least to any  
substantial degree, into a beam path produced by the lamp (2) and the reflector (1).

2. (original) A discharge lamp as claimed in claim 1, wherein the at least  
one nozzle (3; 31, 32, 33, 34) is inserted in a hole in the reflector (1).

3. (currently amended) A discharge lamp as claimed in claim 1,  
wherein the a velocity of the flow of gas emerging from the at least one nozzle (3,  
31, 32, 33, 34) is of a value such that a turbulent flow is produced that surrounds at  
least part of the lamp (2).

4. (original) A discharge lamp as claimed in claim 1, wherein at least two  
nozzles (31, 32; 33, 34) that are at an angle to one another are directed at the  
discharge lamp (2) such that a turbulent flow is produced that surrounds at least  
part of the lamp (2).

## REVISIONS TO CLAIMS

1 5. (original) A discharge lamp as claimed in claim 4, wherein the nozzles  
2 (31, 32; 33, 34) are at an angle of approximately 90° to one another.

1 6. (original) A discharge lamp as claimed in claim 1, wherein a first  
2 sensor (41) is arranged adjacent at least one of the nozzles (3; 31, 32, 33, 34) to  
3 sense the velocity and/or the pressure and/or the flow-rate of a flow of gas passing  
4 through the nozzle (3; 31, 32, 33, 34).

1 7. (currently amended) A discharge lamp as claimed in claim 1,  
2 wherein at least one first nozzle (31, 32) is directed at a region of the discharge  
3 vessel (21) that is at the top in the position in which the discharge lamp (2) is  
4 operating, and at least one second nozzle (33, 34) is directed at a region of ~~the a~~  
5 discharge vessel (21) that is at the bottom in this same operating position.

1 8. (original) A discharge lamp as claimed in claim 7, wherein the  
2 velocity of the flow of gas passing through at least one of the nozzles (3; 31, 32,  
3 33, 34) can be controlled as a function of the operating position of the discharge  
4 lamp (2).

## REVISIONS TO CLAIMS

1 9. (original ) A discharge lamp as claimed in claim 7, wherein a second  
2 sensor (12) is provided to sense the operating position of the discharge lamp (2)  
3 and to control the velocity of the flow of gas passing through at least one of the  
4 nozzles (3; 31, 32, 33, 34) as a function of the operating position.

1 10. (new) A discharge lamp comprising

- 2 - a discharge element;
- 3 - a reflector about the discharge element for producing a beam path toward an  
4 exit window;
- 5 - cooling means, comprising at least one nozzle arranged at the exterior of the  
6 reflector and having an opening at the boundary of the reflector inside the  
7 lamp, the nozzle pointing toward the discharge element, but not parallel to  
8 an axis of symmetry created by the discharge element and a neck of the  
9 reflector.

1 11. (new) The lamp of claim 10 comprising at least one second nozzle, also having  
2 an opening at the boundary of the reflector inside the lamp, pointing toward the  
3 discharge element, but not parallel to the axis, the second nozzle forming an angle

## REVISIONS TO CLAIMS

4 with respect to the first nozzle such that a turbulent flow is produced around the  
5 discharge element.

1 12. (new) The lamp of claim 10, wherein the nozzle is arranged perpendicularly to  
2 the beam path.

1 13. (new) The lamp of claim 10, comprising at least first and second nozzles  
2 arranged approximately opposite each other across the axis.

1 14. (new) The lamp of claim 10, wherein the nozzle is arranged near the exit  
2 window and pointing back approximately toward a neck of the reflector.

1 15. (new) The lamp of claim 10, wherein the nozzle is not arranged in a neck of the  
2 reflector.